# Celebrating 35 Years of the AJNR

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# Central Nervous System Leukemia and Lymphoma: Computed Tomographic Manifestations

John J. Pagan Herman I. Libshitz Sidney Wallace Computed tomographic (CT) abnormalities in the braitenst with Suckemia or Improhoma. Abnormalities in the patients with Isockemia or Improhoma. Abnormalities in hemorrhage (nine), abscass (two), other brain tumor (koencephilosphafy (nee), CT was normal in 374 patient disease diagnosed by cerebrospinal fluid cytologic amalgnant masses were isodense or of greater density increases in size or number of the masses indicated wand chemothereapy was manifested by development of an exhancing rin. CT findings correlated with clinical The differential diagnosis of the various abnormalities.

Central nervous system involvement in teukem and it is usually manifested as leptomeninged in extension of meningeal disease into the brain pare tomographic (CT) recognition of leptomeningeal disease into the brain pare tomographic (CT) recognition of leptomeninged in the CT description of brain involvement is quite is with the intracranist manifestations of leukemic 405 patients is reviewed, Evidence of response to 405 patients is reviewed, Evidence of response to the office of the contraction of the

#### Materials and Methods

Over a 4 year period, 405 patients with leukemia (2non-Hodgkin; 12 Hodgkin) underwent cerebral CT. This lesions following contrast administration. The CT abn

All CT studies were performed with an EMI 1010 scanner using a 60 sec scan time, 160 x 160 matrix, and 13 mm collimator. All scans were obtained either immediately after administration of 40 g of intravenous iodine or 1 hr following high dose (80 g iodine) contrast inhaison (10). Most patients also had noncontrast scans.







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### Results

Abnormalities in 24 of the 245 patients wi masses, hemorrhages, abscesses, other tum. These are itemized by type of leukemia in table abnormality in the lymphoma group and were patients (table 2).

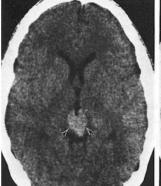
### Leukemi

Of the 245 leukemic patients, 59 underwent

# Pineal Region Tumors: Computed Tomographic-Pathologic Spectrum

Nancy N. Futrell Anne G. Osborn While several computed tomographic (CT) studies of posterior third vertificidate mopleams have included descriptions of pineal tumors, few reports have concentrated on these encommon issions. Some authors have asserted that the CT appearance of a second of the control of the

Tumors of the pineal region account for less than 2% of all infracranii necolatams [1]. While several reports of computed temography (CT) of this ventricular neoplasms have included an occasional pineal tumor [2, 3], few have focused on the radiographic spectrum of these uncommon lesions [4]. Som of many pineal tumors is virtually





in 15,000 consecutive CT scans. Four e for the females was 27 years; for the sche, nausea, and vomiting, to Parinaud and hypopituitarism (table 1). Plain and

Jopsy. Two were germinomas (atypical each was pineal harmarforms, beeing or case was designated as a "malignant case had insufficient tissue for pathocase had insufficient tissue for pathocase had insufficient tissue for pathocase in the property of the presumptive dince widence of residual or recurrent loos to follow:

rminomas were either isodense or A) and showed marked, uniform ement (fig. 1B). Several were well